FIG. 1

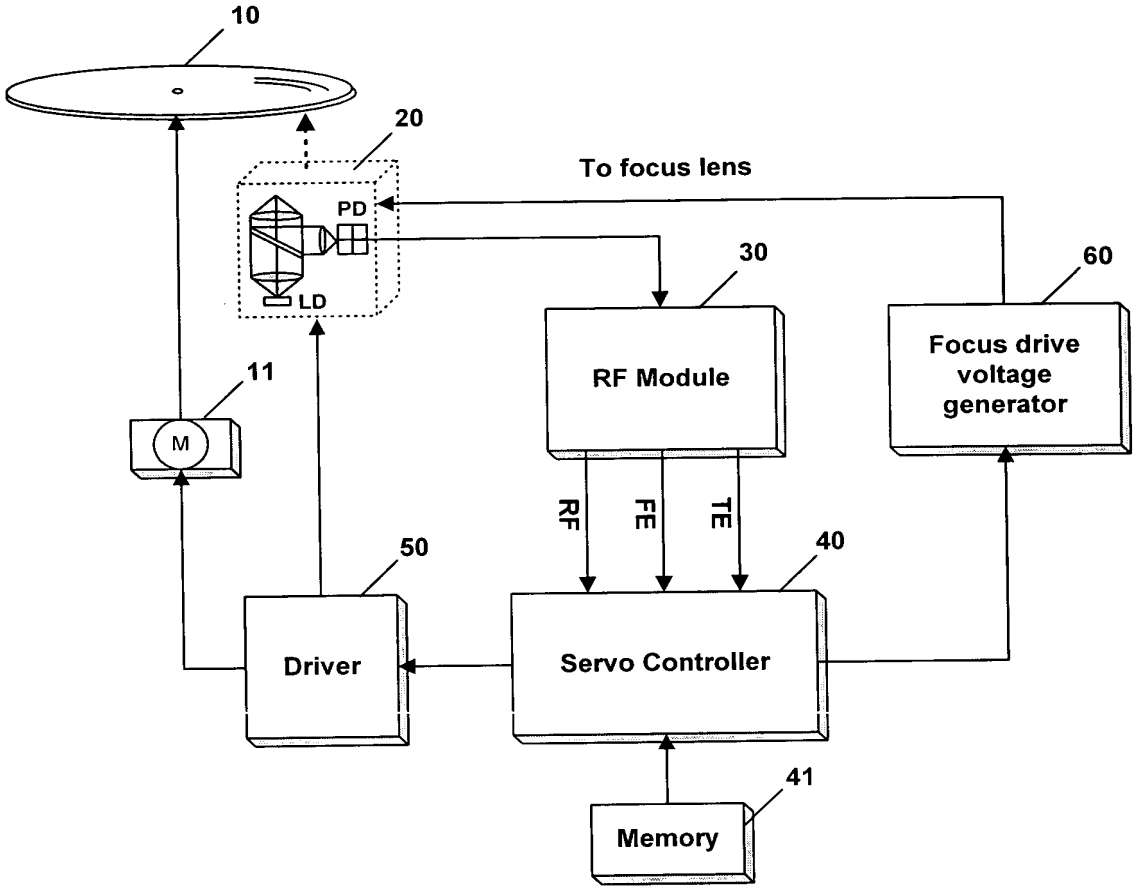

10
20
To focus lens
PD
LD
30
60
RF Module
Focus drive voltage generator
11
M
RF
FE
TE
50
40
Driver
Servo Controller
41
Memory

FIG. 2

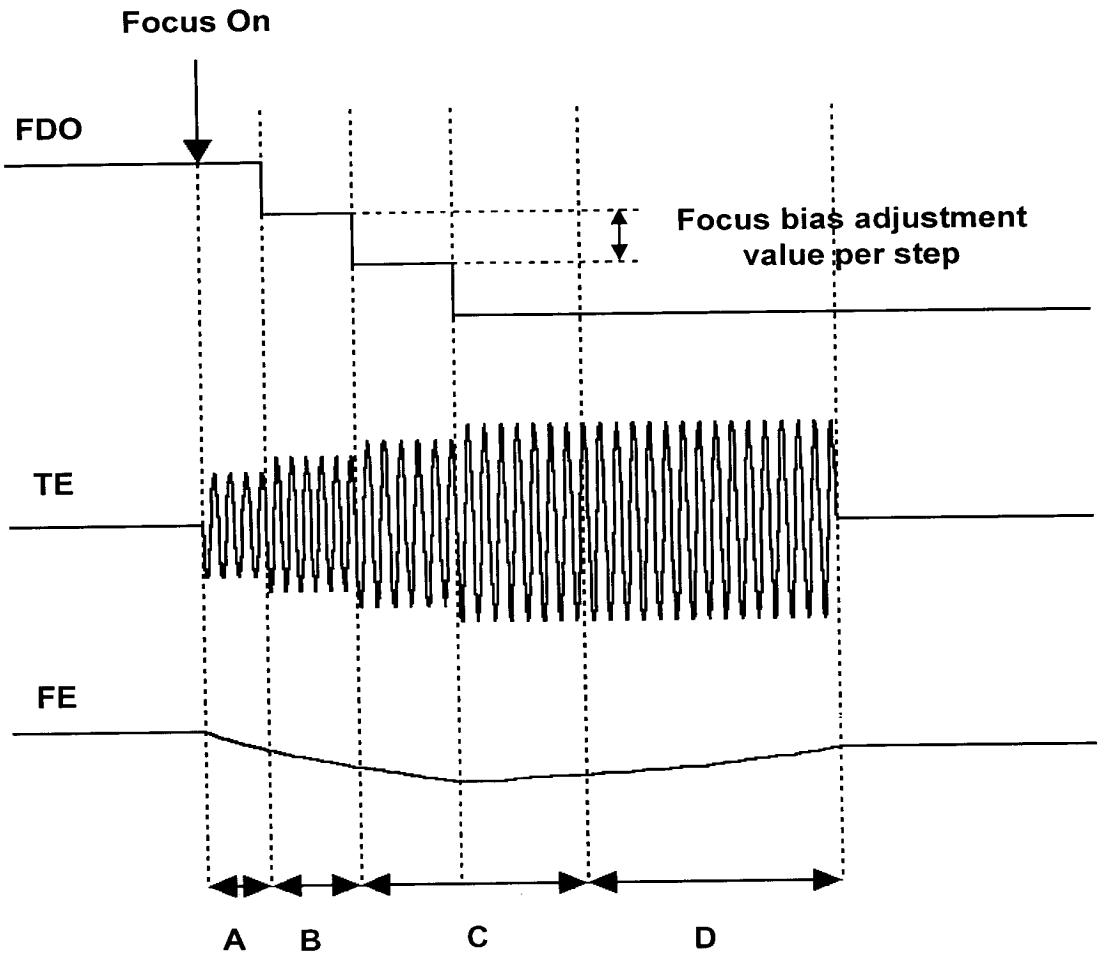


FIG. 3

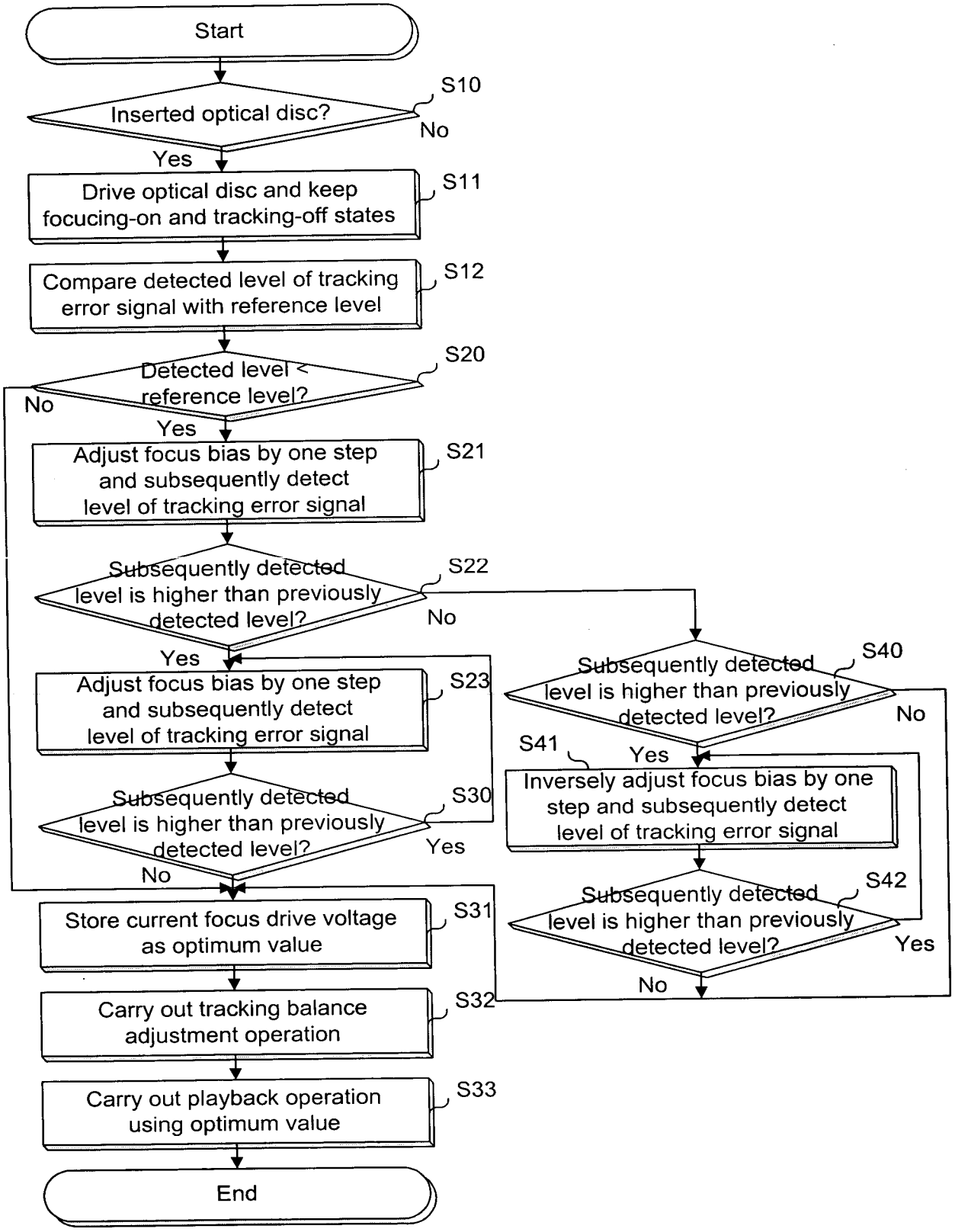

Start
Inserted optical disc?
S10
No
Yes
Drive optical disc and keep focucing-on and tracking-off states
S11
Compare detected level of tracking error signal with reference level
S12
Detected level < reference level?
S20
No
Yes
Adjust focus bias by one step and subsequently detect level of tracking error signal
S21
Subsequently detected level is higher than previously detected level?
S22
No
Yes
Adjust focus bias by one step and subsequently detect level of tracking error signal
S23
Subsequently detected level is higher than previously detected level?
S30
Yes
No
Store current focus drive voltage as optimum value
S31
Carry out tracking balance adjustment operation
S32
Carry out playback operation using optimum value
S33
End
Subsequently detected level is higher than previously detected level?
S40
No
S41
Yes
Inversely adjust focus bias by one step and subsequently detect level of tracking error signal
Subsequently detected level is higher than previously detected level?
S42
Yes
No

FIG. 4

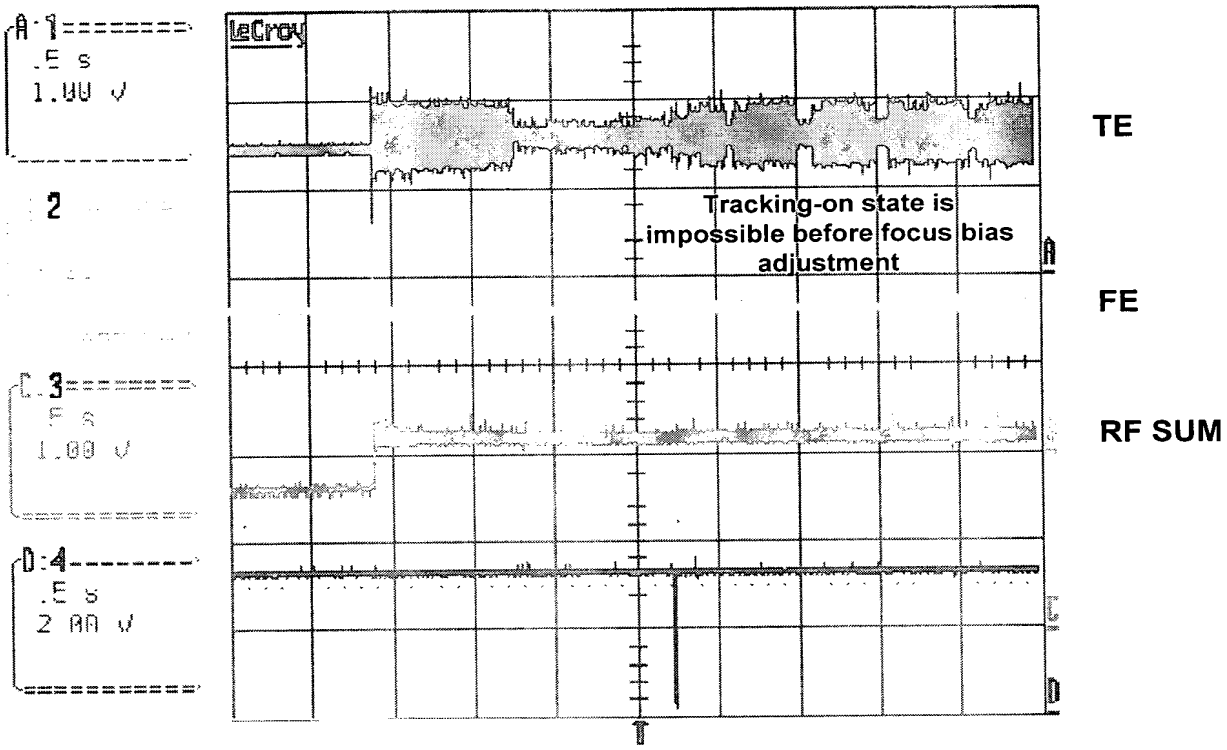
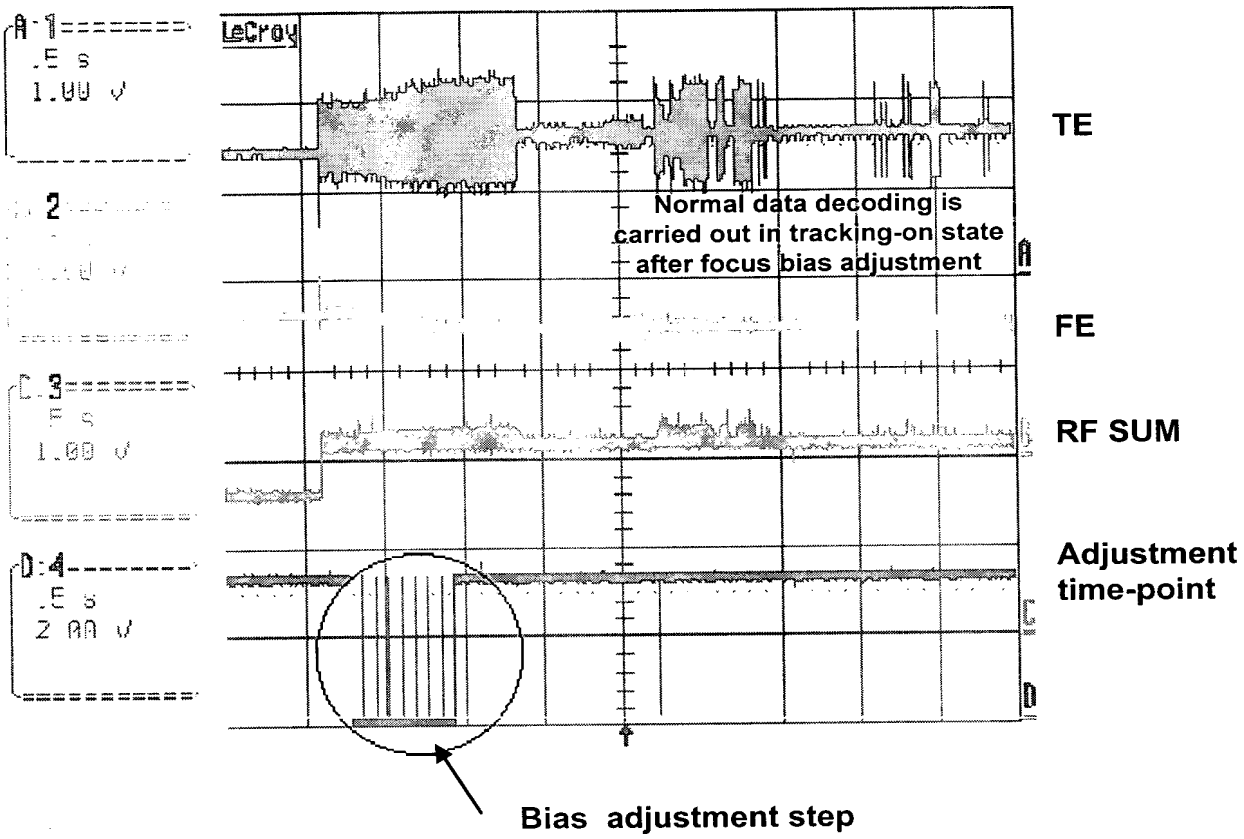

LeCroy
Tracking-on state is impossible before focus bias adjustment
TE
FE
RF SUM

FIG. 5


LeCroy
TE
Normal data decoding is carried out in tracking-on state after focus bias adjustment
FE
RF SUM
Adjustment time-point
Bias adjustment step